

Daniel Spalink

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Department of Ecology and Conservation Biology
Texas A&M University
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AREAS OF INTEREST

Phylogenomics of angiosperms; biogeography; geographical, ecological, and morphological correlates of diversification; niche evolution; phylogeography and conservation genetics; spatial phylogenetics; community assembly

ACADEMIC POSITIONS

- 2020- Assistant Professor, Department of Ecology and Conservation Biology
Texas A&M University
- 2018-2019 Assistant Professor, Department of Ecosystem Science and Management
Texas A&M University (Department was restructured in Fall 2019)
- 2018- Director, SM Tracy Herbarium
Texas A&M University
- 2018- Core Faculty, Ecology and Evolutionary Biology Program
Texas A&M University
- 2016-2018 Postdoctoral Scholar, Department of Biology
University of Utah
PI: Lynn Bohs
- 2015-2016 Postdoctoral Fellow, Department of Botany
University of Wisconsin-Madison
PI: Thomas J. Givnish
- 2012–2015 Graduate Fellow, Department of Botany
University of Wisconsin-Madison
- 2010–2012 Teaching Assistant, Department of Botany
University of Wisconsin-Madison
- 2008–2009 Adjunct Instructor, Department of Biology
Grand Valley State University
- 2008–2009 Research Assistant, *Molecular systematics of Aneliema (Commelinaceae)*
Grand Valley State University
PI: Timothy M. Evans
- 2006–2008 Collections Manager; Calvin College Herbarium
Calvin College

EDUCATION

- 2015 **Ph.D.**, University of Wisconsin-Madison, Department of Botany.
Dissertation: *Time, Space, and Form: Patterns of diversification over 90 million years of sedge (Cyperaceae) evolution.*
Advisor: Kenneth J. Sytsma
- 2006 **B.S.**, Calvin College, Grand Rapids, MI. Major: Biology; Minor: Biochemistry

AWARDS & FELLOWSHIPS

- 2020 Journal of Systematics and Evolution Outstanding Paper by Young Investigators Award (\$500)
- 2016 – present Honorary Fellow, Department of Botany, University of Wisconsin-Madison
- 2017 Outstanding Student Award, International Botanical Congress, Shenzhen, China (\$650).
- 2017 Invited paper award, Journal of Systematics and Evolution. (\$1000)
- 2012–2015 NSF Graduate Research Fellowship
- 2012 Departmental Nominee, L&S Teaching Fellow, University of Wisconsin-Madison
- 2012 *Flora Aeterna* Fellowship; Department of Botany, University of Wisconsin-Madison
- 2011 Honorable Mention: NSF Graduate Research Fellowship
- 2010 Biological Science Scholar Award, University of Wisconsin-Madison (\$4500)

FUNDING RECEIVED (PI: \$972K; co-PI: \$49.5K; collaborative total: \$4.8M)

- 2019 NSF DBI 1902064: Digitization TCN: Collaborative: American Crossroads: Digitizing the vascular flora of the south-central United States. TAMU PI. \$866.8K (\$4.7M collaborative total)
- 2019 TAMU AgriLife McIntyre-Stennis funds for shared laboratory infrastructure. PI. \$62K
- 2019 TAMU T3 Grant: Environmental disasters in the Anthropocene: a multidisciplinary approach. Co-PI. \$30K
- 2019 Texas EcoLab. Diversity and Spatial Phylogenetics of the Texas flora. PI \$6.8K
- 2018 Texas EcoLab. Filling in the gaps of vouchered research. PI. \$1.8K
- 2013–2015 NSF DEB 1311153. Dissertation Research: Phylogeny, biogeography, and population genetics of *Scirpus* (Cyperaceae). Co-PI. \$19.5K
- 2014 Raper Travel Award, University of Wisconsin-Madison PI. \$400
- 2012–2014 *Flora Aeterna* Fellowship, University of Wisconsin-Madison. PI. \$10K
- 2013 Raper Travel Award, University of Wisconsin-Madison. PI. \$333
- 2012 Davis Research Award, University of Wisconsin-Madison. PI. \$1.5K
- 2011 Davis Research Award, University of Wisconsin-Madison. PI. \$1.5K
- 2011 Graduate Student Research Grant, American Society of Plant Taxonomists. PI. \$800
- 2011 Graduate Student Research Awards, Botanical Society of America (\$500)
- 2009 Scholarly Travel Grant-in-aid, Faculty Research and Development Grant, Grand Valley State University. PI. \$500
- 2006-2008 Herbarium digitization grant, Department of Biology, Calvin College PI. \$10K

PENDING FUNDING

- 2021 NSF 2028729. Collaborative Research: RoL: Drivers of phylogenetic, ecophysiological, and biogeographic diversity in Bromeliaceae. TAMU PI. \$391K. In Review.

PUBLICATIONS

30. Benítez-Benítez, C, S Martín-Bravo, CS BJORÅ, S Gebauer, AL Hipp, MH Hoffmann, M Luceño, TM Pedersen, A Reznicek, E Roalson, P Volkova, O Yano, D Spalink, P Jiménez-Mejías. 2021. Geographical vs. ecological diversification in *Carex* section *Phacocystis* (Cyperaceae): patterns hidden behind a twisted taxonomy. 2021. *Journal of Systematics and Evolution*, doi: 10.1111/jse.12731.
29. Márquez-Corro, JI, S Martín-Bravo, P Jiménez-Mejías, AL Hipp, D Spalink, RCF Naczi, EH Roalson, M Luceño, M Escudero. 2021. Macroevolutionary insights into sedges (*Carex*: Cyperaceae): the effects of rapid chromosome number evolution on lineage diversification. *Journal of Systematics and Evolution*, doi: 10.1111/jse.12730.
28. Larridon, I, AR Zuntini, É Léveillé-Bourret, RL Barrett, JR Starr, AM Muasya, T Villaverde, K Bauters, GE Brewer, JJ Bruhl, SM Costa, TL Elliott, N Eritawale, M Escudero, I Fairlie, P Goetghebeur, AL Hipp, P Jiménez-Mejías, IAB Sabino Kikuchi, M Luceño, JI Márquez-Corro, S Martín-Bravo, O Maurin, L Pokorny, EH Roalson, I Semmouri, DA Simpson, D Spalink, WW Thomas, KL Wilson, M Xanthos, F Forest, WJ Baker. 2021. A new classification of Cyperaceae (Poales) supported by phylogenomic data. *Journal of Systematics and Evolution*, doi: 10.1111/jse.12757.
27. Larridon I, D Spalink, P Jiménez-Mejías, JI Márquez-Corro, S Martín-Bravo, AM Muasya, M Escudero. 2021. The evolutionary history of sedges (Cyperaceae) in Madagascar. *Journal of Biogeography*, 48: 917-932.
26. Roalson EH, P Jiménez-Mejías, AL Hipp, C Benítez-Benítez, LP Bruederle, K-S Chung, M Escudero, BA Ford, K Ford, S Gebauer, B Gehrke, M Hahn, MQ Hayat, MH Hoffmann, X-F Jin, S Kim, I Larridon, E Léveillé-Bourret, Y-F Lu, M Luceño, E Maguilla, JI Márquez-Corro, S Martín-Bravo, T Masaki, M Míguez, RFC Naczi, AA Reznicek, D Spalink, JR Starr, T Villaverde, MJ Waterway, KL Wilson, S Zhang. 2021. A framework infrageneric classification of *Carex* (Cyperaceae) and its organizing principles. *Journal of Systematics and Evolution*, doi:10.1111/jse.12722
25. Larridon I, AR Zuntini, RL Barrett, KL Wilson, JJ Bruhl, P Goetghebeur, WJ Baker, GE Brewer, N Eritawale, I Fairlie, F Forest, IABS Kikuchi, L Pokorny, I Semmouri, D Spalink, DA Simpson, AM Muasya, EH Roalson. 2021. Resolving generic limits in Cyperaceae tribe Abildgaardieae using targeted sequencing. *Botanical Journal of the Linnean Society*, 196:163-187.

24. Escudero M, GN Feliner, L Pokorny, D Spalink, J, Viruel. 2020. Phylogenomic approaches to deal with particularly challenging plant lineages. *Frontiers in Plant Science* 11: 591762.
23. Givnish TJ, Kriebel RJ, Zaborsky JJ, Rose J, Spalink D, Waller DJ, Cameron KJ, Sytsma KJ. 2020. Adaptive associations among life history, reproductive traits, environment, and origin in the Wisconsin angiosperm flora. *American Journal of Botany*, 107:1677-1692.
22. Zhang Y, Qian L, Spalink D, Sun L, Chen J, Sun H. 2020. Spatial phylogenetics of two topographic extremes of the Hengduan Mountains in southwestern China and its implications for biodiversity conservation. *Plant Diversity*, doi:10.1016/j.pld.2020.09.001.
21. Spalink D, MacKay R, Sytsma KJ. 2019. Phylogeography, population genetics, and distribution modeling reveal vulnerability of *Scirpus longii* (Cyperaceae) and the Atlantic Coastal Plain Flora to climate change. *Molecular Ecology*, mec.15006.
20. Martín-Bravo S, Jiménez-Mejías P, Villaverde T, Escudero M, Hahn M, Spalink D, Roalson EH, Hipp AL, Global Carex Group. 2019. A tale of worldwide success: Behind the scenes of *Carex* (Cyperaceae) biogeography and diversification. *Journal of Systematics and Evolution*, doi: 10.1111/jse.12549. (**Journal Cover**)
19. Abdelaal H, Spalink D, Amer A, Steinberg H, Hashish EA, Nasr EA, Talaat AM. 2019. Genomic polymorphism with the emergence of virulent isolates of *Mycobacterium bovis* in the Nile Delta. *Scientific Report*, 9:1.
18. Márquez-Corro JI, Martín-Bravo S, Spalink D, Luceño M, Escudero M. 2019. Inferring hypothesis-based transitions in clade-specific models of chromosome number evolution along phylogenies. *Molecular Phylogenetics and Evolution*, 135, 203-209.
17. Alyamani EJ, Marcus SA, Ramirez-Busby SM, Hansen C, Rashid J, El-kholy A, **Spalink D**, Valafar F, Almehdar HA, Fatani AJ, Khiyami MA, Talaat AM. 2019. Transmission dynamics of *Mycobacterium tuberculosis* in The Middle East. *Scientific Reports* 9: 474.
16. Spalink D, Kriebel R, Li P, Pace MC, Drew BT, Zaborsky JG, Rose J, Drummond C, Feist MA, Alverson B, Waller D, Cameron KM, Givnish TJ, Sytsma KJ. 2018. Spatial phylogenetics reveals evolutionary constraints on the assembly of a large regional vascular flora. *American Journal of Botany*, 105, 1938-1950.
15. Givnish TJ, Zuluaga A, Spalink D, Soto Gomez M, Lam VKY, Saarela JM, Sass C, Iles WJD, Lima de Sousa, DJ, Leebens-Mack J, Pires JC, Zomlefer WB, Gandolfo MA, Davis JI, Stevenson DW, dePamphilis C, Specht C, Graham SW, Barrett CF, Ane C. 2018. Monocot plastid phylogenomics, timeline, net rates of species diversification, the power of multi-gene analyses, and a functional model for the origin of monocots. *American Journal of Botany*, 105, 1888-1910.

14. Spalink D, Pender J, Escudero M, Hipp A, Roalson E, Starr JR, Waterway M, Bohs L, Sytsma KJ. 2018. The spatial structure of phylogenetic and functional diversity in North America: an example using the sedge family (Cyperaceae). *Journal of Systematics and Evolution*, <https://doi.org/10.1111/jse.12423>.
13. Spalink D, K Stoffel, GK Walden, AM Hulse-Kemp, T Hill, A Van Deynze, L Bohs. 2018. Comparative transcriptomics and genomic patterns of discordance in Capsiceae (Solanaceae). *Molecular Phylogenetics and Evolution*, 126, 293-302.
12. Kitanovic K, Orr T, Spalink D, Cocke G, Schramm K, Ross W, Halpert J, Dearing D. 2018. Role of Cytochrome P450 2B sequence variation and gene copy number in facilitating dietary specialization in mammalian herbivores. *Molecular Ecology*, 27(3), 723-736.
11. Spalink D, Drew BT, Pace MC, Zaborsky JG, Cameron KM, Starr JR, Sytsma KJ. 2016. Biogeography of the cosmopolitan sedges (Cyperaceae) and the area-richness correlation in plants. *Journal of Biogeography*, 43(10), 1893-1904. **Special Paper, Editor's Choice**.
10. Spalink D, Drew BT, Pace MC, Zaborsky JG, Li P, Cameron KM, Givnish TJ, Sytsma KJ. 2016. Evolution of place and niche space: geographical diversification of the North American sedge flora (Cyperaceae). *Molecular Phylogenetics and Evolution*, 95, 183-195. **Featured in GBIF Science Review 2016**.
9. Givnish TJ, Spalink D, Ames M, Lyon SP, Hunter SJ, Zuluaga A, Doucette A, Caro G, McDaniel J, Clements M, Arroyo MTK, Endara L, Kriebel R, Williams N, Cameron KM. 2016. Orchid historical biogeography, diversification, Antarctica, and the paradox of orchid dispersal. *Journal of Biogeography*, 43(10), 1905-1916.
8. Givnish TJ, Zuluaga A, Marques I, Lam VKY, Gomez MS, Iles WJD, Ames M, Spalink D, Moeller J, Briggs BG, Lyon SP, Stevenson DW, Zomlefer W, Graham SW. 2016. Phylogenomics and historical biogeography of the monocot order Liliales: out of Australia and through Antarctica. *Cladistics*, 32(6), 581-605.
7. Kartzinel RY, Spalink D, Waller DM, Givnish TJ. 2016. Divergence and isolation of cryptic sympatric taxa within the annual legume *Amphicarphaea bracteata*. *Ecology and Evolution*, 6(10), 3367-3379.
6. Berger B, Kriebel R, Spalink D, Sytsma KJ. 2016. Divergence times, shifts in speciation rates, and historical biogeography of Myrtales. *Molecular Phylogenetics and Evolution*, 95, 116-136.
5. Givnish TJ, Spalink D, Ames M, Lyon S, Hunter S, Zuluaga A, Iles W, Clements M, Arroyo MTK, Leebens-Mack J, Endara L, Kriebel R, Neubig K, Whitten M, Williams NH, Cameron KM. 2015. Orchid phylogenomics and multiple drivers of their extraordinary diversification. *Proceedings of the Royal Society of London B*, 282(1814), 20151553.

4. Waterway MJ, Ford KA, Luceño M, Martin-Bravo S, Starr JR, Wilson O, Yano E, Zhang SR, Roalson EH, Alverson WS, Bruederle LP, Bruhl JJ, Chung K-S, Cochrane TS, Escudero M, Ford BA, Gebauer S, Gehrke B, Hahn M, Hipp AL, Hoffmann MH, Hoshino T, Jiménez-Mejías P, Jin X-F, Jung J, Kim S, Maguilla E, Masaki T, Miguez M, Molina A, Naczi RFC, Reznicek AA, Rothrock PE, Simpson D, Spalink D, Thomas WW, Villaverde T. 2015. Making *Carex* monophyletic (Cyperaceae, tribe Cariceae): a new broader circumscription. *Botanical Journal of the Linnean Society*, 179. 1-42.
3. Sytsma KJ, Spalink D, Berger B. 2014. Calibrated chronograms, fossils, outgroup relationships, and root priors: re-examining the historical biogeography of Geraniales. *Biological Journal of the Linnean Society*, 113(1), 29-49.
2. Lévillé-Bourret É, Gilmour CN, Starr JR, Naczi RF, Spalink D, Sytsma KJ. 2014. Searching for the sister to sedges (*Carex*): resolving relationships in the Cariceae-Dulichieae-Scirpeae clade (Cyperaceae). *Botanical Journal of the Linnean Society*, 176(1), 1-21.
1. Knight KS, Herms D, Plumb R, Sawyer E, Spalink D, Pisarczyk E, Wiggin B, Kappler R, Menard K. 2012. Dynamics of surviving ash (*Fraxinus* spp.) populations in areas long infested by emerald ash borer (*Agrilus planipennis*). In *Proceedings of the 4th international workshop on the genetics of host-parasite interactions in forestry: disease and insect resistance in forest trees* (coord. by Sniezko, R.A., A.D. Yanchuk, J.T. Kliejunas, K.M. Palmieri, J.M. Alexander, S.J. Frankel). U.S. Department of Agriculture, Eugene, OR.

PRESENTATIONS AT PROFESSIONAL MEETINGS (first author presenting)

- Rehman T, P Fritsch, M Fishbein, B Hoagland, A moore, D Spalink, G Yatskiyevych, D Barrosa, J Best, C Barrett. 2020. American Crossroads: Digitizing the vascular flora of the South-Central United States. TPCC, virtual.
- Spalink D, I Laridon, E Roalson. 2019. Ecological, biogeographic, and physiological drivers of diversification in Abildgaardieae (Cyperaceae). Botanical Society of America, Tucson, AZ.
- Spalink D, N Karimi, J Richards, T Thein, E Eifler, A DiNicola, L Schomaker, T Givnish. 2019. Passive seed dispersal, strong genetic structure, and small spatial scale of gene flow associated with morphological divergence in the desert winter annual, *Eschscholtzia parishii*: potential implications for rapid small-scale speciation. Botanical Society of America, Tucson, AZ.
- Givnish T, R Kriebel, J Zaborsky, J Rose, D Spalink, D Waller, K Cameron, K Sytsma. Phylogeny and trait evolution in the Wisconsin native and introduced angiosperm floras. Botanical Society of America, Tuscon, AZ.
- O Santiago, D Spalink, K Brumbelow, G Moore. Epiphytic diversity and distribution along elevational gradients in a Costa Rican premontane rainforest. AGU, San Fransisco, CA. (Poster)
- Spalink D, Pender J, Escudero M, Hipp A, Roalson E, Starr JR, Waterway M, Bohs L, Sytsma KJ. 2018. The spatial structure of sedge (Cyperaceae) diversity in North America. Botanical Society of America, Rochester, MN.

- Spalink D, K Stoffel, GK Walden, AM Hulse-Kemp, T Hill, A Van Deynze, L Bohs. 2018. Comparative transcriptomics and genomic patterns of discordance in Capsiceae (Solanaceae). Botanical Society of America, Rochester, MN.
- Spalink D. 2017. Diversification and assembly of the North American sedge flora. International Botanical Conference, Shenzhen, China.
- Spalink D, R Kriebel, TJ Givnish, MA Feist, DM Waller, KM Cameron, KJ Sytsma. 2017. High-resolution spatial phylogenetics of the Wisconsin vascular flora. International Botanical Conference, Shenzhen, China.
- Spalink D, E L veill -Bourret, JR Starr, KJ Sytsma. 2017. Divergent geographical, morphological, and ecological evolution in the bulrushes and cotton-grasses (Cyperaceae). International Botanical Conference, Shenzhen, China.
- Spalink D, Bohs L, Stoffel K, Van Deynze A. 2017. Spiciness in the age of discordance: genomic patterns of incongruence among peppers (*Capsicum*) and relatives. International Botanical Conference, Shenzhen, China. (Poster)
- Spalink D, Bohs L, Stoffel K, Van Deynze A. 2017. Spiciness in the age of discordance: genomic patterns of incongruence among peppers (*Capsicum*) and relatives. Species in the age of discordance, Salt Lake City, UT. (Poster)
- Bohs L, Dean E, Barboza G, Van Deynze A, Knapp S, Stoffel K, Hulse-Kemp A, Walden G, Spalink D. 2016. Getting to the root of pungency: phylogeny and taxonomy of *Lycianthes* and *Capsicum* (Capsiceae, Solanaceae). Solgenomics, Davis, CA. (poster)
- Spalink D, Kriebel R, Givnish TJ, Feist M, Waller D, Cameron KM, Sytsma KJ. 2016. Disassembly and reassembly of the Wisconsin flora: phylogenetic and geographic patterns of diversity in a changing climate. Botanical Society of America, Savannah, Georgia.
- Drew BD, Spalink D, Sytsma KJ. 2016. A single dispersal event initiated diversification in the New World Menthinae (Lamiaceae). Botanical Society of America, Savannah, Georgia.
- Givnish TG, Spalink D, Ames M, Lyon S, Hunter S, Zuluaga A, Doucette A, Giraldo G, McDaniel J, Clements M, Arroyo MTK, Endara L, Kriebel R, Williams N, Cameron K. 2016. Orchid historical biogeography, diversification, Antarctica, and the paradox of orchid dispersal. Botanical Society of America, Savannah, Georgia.
- Cameron K, Kriebel R, Spalink D, Pace MC, Li Pan, Drummond C, Rose J, Zaborsky J, Alverson B, Givnish TJ, Waller D, Sytsma D. 2016. Relatedness among rare native species and invasive exotics quantified with a molecular community phylogeny of the Wisconsin Flora: implications for plant conservation. Botanical Society of America, Savannah, Georgia.
- Spalink D, L veill -Bourret  , Starr JR, Sytsma KJ. 2015. Divergent geographical, morphological, and ecological evolution in the bulrushes (*Scirpus*) and cotton-grasses (*Eriophorum*). Botanical Society of America, Edmonton, Alberta.
- Spalink D, MacKay R, Sytsma KJ. 2015. When you can't run and you can't hide: ongoing threats to a globally imperiled bulrush (*Scirpus*) revealed by genotyping-by-sequencing. Botanical Society of America, Edmonton, Alberta.
- Berger B, Kriebel R, Spalink D, Sytsma KJ. 2015. Divergence times, historical biogeography, and shifts in speciation rates of Myrtales. Botanical Society of America, Edmonton, Alberta, CA.
- Kriebel R, Berger B, Spalink D, Sytsma KJ. 2015. The evolution of shape and size in the pollen of Myrtales. Botanical Society of America, Edmonton, Alberta.

- Givnish TJ, Spalink D, Ames M, Lyon SP, Hunter S, Zuluaga A, Iles WJD, Clements MA, Arroya, MTK, Leebens-Mack J, Endara L, Kriebel R, Neubig KM, Whitten MM, Williams NH, Cameron KM. 2015. Orchid phylogenomics and multiple drivers of their extraordinary diversification. Botanical Society of America, Edmonton, Alberta.
- Léveillé-Bourret É, Gilmour CN, Starr JR, Naczi RCF, Spalink D, Sytsma KJ. 2015. Searching for the sister to sedges (*Carex*): resolving relationships within the Cariceae-Dulichieae-Scirpeae clade (Cyperaceae). Botanical Society of America, Edmonton, Alberta.
- Spalink D, Drew BT, Zaborsky J, Cameron K, Sytsma KJ. 2014. Evolution of niche space and place: reconstructing the ecological and biogeographical diversification of the North American sedges (Cyperaceae). Botanical Society of America, Boise, ID.
- Spalink D, Drew BT, Zaborsky J, Starr JR, Cameron KM, Sytsma KJ. 2014. Historical biogeography and diversification of the cosmopolitan Cyperaceae. Botanical Society of America, Boise, ID.
- Sytsma KJ, Spalink D. 2014. Examining biogeographic and climatic niche evolution in *Clarkia* (Onagraceae) from the California Floristic Province. Botanical Society of America, Boise, ID.
- Sytsma KJ, Spalink D, Berger B. 2014. Calibrated chronograms, fossils, outgroup relationships, and root priors: re-examining the historical biogeography of Geraniales. Botanical Society of America, Boise, ID.
- Givnish TJ, Zuluaga A, Spalink D, Iles W, Lam V, Moeller J, Briggs B, Zomlefer W. 2014. Plastome phylogeny for the monocot order Liliales. Botanical Society of America, Boise, ID.
- Cameron K, Sytsma KJ, Waller DH, Givnish TG, Pace MC, Li P, Spalink D, Drummond C, Zaborsky J, Rose J, Alverson B, Kriebel R. 2014. A molecular phylogeny of the Wisconsin Flora. Botanical Society of America, Boise, ID.
- Spalink D, Sytsma KJ. 2013. Phylogeny reveals a persisting polyphyly in the bulrushes (*Scirpus*, Cyperaceae): implications for a long-troubled taxonomy and insights into bulrush diversification. 5th International Conference on Comparative Biology of Monocotyledons, NY Botanical Garden.
- Spalink D, Zaborsky J, Drew B, Pace M, Cameron KM, Sytsma KJ. 2013. Using regional flora barcode databases for large-scale phylogenetic reconstructions: a new and improved fossil calibrated phylogeny of the sedge family. 5th International Conference on Comparative Biology of Monocotyledons, NY Botanical Garden.
- Starr JR, Gilmour CN, Naczi RCF, Donadio S, Léveillé-Bourret E, Ford BA, Spalink D, Sytsma KJ. 2013. Phylogeny of the hyperdiverse Cariceae+Dulichieae+Scirpeae s.s. clade (Cyperaceae). 5th International Conference on Comparative Biology of Monocotyledons, NY Botanical Garden.
- Knight KS, Plumb R, Sawyer E, Spalink D, Menard K, Long RP. 2011. The legacy of emerald ash borer: ash mortality and floodplain restoration at Oak Openings Metropark. Oak Openings Research Forum, Toledo, OH.
- Spalink D, Davis C, Evans TM. 2009. A Preliminary Phylogenetic Analysis of the Genus *Aneilema* (Commelinaceae) based on chloroplast DNA sequences. Botanical Society of America, Snowbird, UT. (poster)
- Spalink D, Warners D. 2006. Native Habitat Plantings: Benefits, Assessments, and Best-Practices. American Scientific Affiliation, Grand Rapids, MI.

INVITED LECTURES AND SEMINARS

Current: 30 June 2021

- 2019 “Evolutionary divergence and geographic convergence: drivers of evolution and patterns of assembly in one of the world's most diverse plant families.” EEB Seminar Series, TAMU.
2019. “Genomic and morphological divergence in the desert winter annual, *Eschscholzia parishii*.” SPECEz seminar series. TAMU.
- 2018 “Leveraging molecules and museums to identify multidimensional conservation priorities in Texas.” Texas Plant Conservation Conference, BRIT, Fort Worth, Texas.
- 2015 University of Wisconsin-Madison, Botany 400: Plant Systematics. *When you can't run and you can't hide: ongoing threats to an imperiled bulrush (Scirpus longii, Cyperaceae).*
- 2015 University of Wisconsin-Madison, Botany 422: Plant Biogeography. *Harvesting and harnessing data for biogeographical research: where to look, what to take, and what to do with it.*
- 2014 University of Wisconsin-Madison, Botany 400: Plant Systematics. *Diversification of the North American Sedge Flora: Evolution of place and niche space.*
- 2014 University of Wisconsin-Madison, J.F. Crow Institute for the Study of Evolution: Evolution Seminar Series. *Diversification of the North American Sedge Flora: Evolution of place and niche space.*
- 2014 University of Wisconsin-Madison, Botany 940: Systematics Seminar. *Characterization and analysis of niche using tools is R.*
- 2013 University of Wisconsin-Madison, Botany 422: Plant Biogeography. *How to use online biogeographic data repositories: tips and cautions.*
- 2013 University of Wisconsin-Madison, Botany 400, Plant Systematics. *(Dis)assembly of the WI sedge flora: patterns of diversity in a changing climate.*
- 2012 Calvin College, Biology 346: Plant Taxonomy. *An introduction to molecular systematics.*
- 2012 Calvin College, Biology Seminar Series. *The past, present, and future of the bulrushes (Scirpus, Cyperaceae): Assessing the implications of endemism in a changing climate.*

MEDIA COVERAGE

- 2018 This lily's cousin is an ear of corn. Now, scientists know how they-and many other plants-are related. *Science*, by Elizabeth Pennisi
- 2015 Orchids' dazzling diversity explained. *Science*, by Erik Stokstad.
- 2015 Orchid family tree explains widespread diversity. *Nature World News*, by Samantha Mathewson.
- 2015 Family tree for orchids explains their astonishing variability. *UW-Madison News*, by David Tenenbaum.

TEACHING INTERESTS

Biogeography
Plant Systematics
Evolutionary biology
Phylogenetic analysis with R

TEACHING EXPERIENCE (* graduate course)

Spring 2021 Texas A&M University: ESSM 304: Rangeland Plant Taxonomy

Current: 30 June 2021

Fall 2020	Texas A&M University: ESSM 303: Agrostology
Fall 2020	Texas A&M University: ESSM 647: Range Grasses and Grasslands*
Spring 2020	Texas A&M University: ESSM 304: Rangeland Plant Taxonomy
Fall 2019	Texas A&M University: ESSM 303: Agrostology
Fall 2019	Texas A&M University: ESSM 647: Range Grasses and Grasslands*
Spring 2019	Texas A&M University: ESSM 304: Rangeland Plant Taxonomy
Fall 2018	Texas A&M University: ESSM 647: Range Grasses and Grasslands*
Spring 2016	University of Wisconsin-Madison, Botany 575: Desert Ecology and Evolutionary Biology.
Spring 2012	University of Wisconsin-Madison, Botany 401: Vascular Flora of Wisconsin
Fall 2011	University of Wisconsin-Madison, Botany 400: Plant Systematics
Summer 2011	University of Wisconsin-Madison, Botany 455: Vegetation of Wisconsin
Spring 2011	University of Wisconsin-Madison, Botany 401: Vascular Flora of Wisconsin
Fall 2010	University of Wisconsin-Madison, Botany/Zoology 152: Intro Biology II
Fall 2009	Grand Valley State University: General Biology II
Spring 2009	Grand Valley State University: General Biology I
Fall 2008	Grand Valley State University: The Biology of People

MENTORSHIP OF GRADUATE STUDENTS

2019 -	Katie Sanbonmatsu (Committee Chair; PhD expected 2023)
2019 -	Kyle Simpson (Committee Chair; PhD expected 2023)
2020 -	Lydia Morley (Committee Chair; PhD expected 2024)
2019 -	James West (Committee Member; MS expected 2021)
2019 -	Ashish Nerleker (Committee Member; PhD expected 2022)
2019-	Nicole Havrilchak (Committee Member, MS expected 2021)

MENTORSHIP OF UNDERGRADUATE RESEARCH TRAINEES

(Current position of former mentees in parentheses)

2019	Olivia Santiago REU program; Texas A&M University <i>Epiphytic diversity in Costa Rican premontane forests</i>
2017 – 2018	Maya Mukai University of Utah <i>Phylogenomics of Lycianthes and Capsicum</i>
2016–2018	Katie Sanbonmatsu (Ph.D. student, Texas A&M University) University of Utah, Independent Research Project <i>Evolution of the pun1 pungency gene in peppers and relatives</i>
2016-2017	Charity Zitting (Ph.D. student, Michigan State University) University of Utah <i>Systematics of Solanaceae</i>
2013-2014	Jessica Barber (Senior Horticulturalist, Tracy Aviary) University of Wisconsin-Madison, Independent Research Project <i>Population genetics of Scirpus longii (Cyperaceae)</i>

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- 2013-2014 Kimberly Breunig (Researcher at UW Carbone Cancer Center)
University of Wisconsin-Madison, Independent Research Project
DNA Barcoding of Wisconsin Juglandaceae
- 2013 Benjamin Seliger (Masters student, University of Maine)
University of Wisconsin-Madison, Independent Research Project
Climatic niche modeling of Scirpus longii (Cyperaceae)
- 2012-2013 Siqi Cheng (Development Intern, Planned Parenthood of SW Ohio)
University of Wisconsin-Madison, Independent Research Project
Molecular Systematics of Scirpus (Cyperaceae)

TRAINING AND WORKSHOPS LED

- 2015 *From 60 gb of raw sequence data to a phylogenetic tree: analysis of next-generation sequence data using custom perl, python, and R scripts.*
Independent training for Department of Botany graduate students, University of Wisconsin-Madison.
- 2010-2016 Trained 31 undergraduate and graduate students and postdocs in various laboratory and computation techniques, including DNA extraction, purification, and quantitation, PCR, Sanger sequencing, Illumina library preparation, R, morphometrics, and high-throughput data analysis.
- 2014 *Characterization and analysis of niche from the comfort of your R.* Systematics Seminar, Department of Botany, University of Wisconsin-Madison.
- 2014 *Analyzing next-generation genotyping-by-sequencing data using high-throughput cluster computing.* Cameron Lab, Department of Botany, University of Wisconsin-Madison.

PROFESSIONAL MEMBERSHIPS

- 2015–Present American Association for the Advancement of Science
- 2011–Present Botanical Society of America
- 2011–2015 J.F. Crow Institute for the Study of Evolution
- 2008–Present American Society of Plant Taxonomists

ADDITIONAL TRAINING AND PROFESSIONAL EXPERIENCE

- 2020 Red Dot Bystander Training, TAMU
- 2019 QPR Suicide Prevention Training, TAMU.
- 2019 Active Shooter Preparedness Training, TAMU.
- 2017 “Bias and Microaggression Workshop;” Office for Inclusive Excellence, University of Utah
- 2013 Attended “Workshop on New Methods for Phylogenomics and Metagenomics,” UT-Austin. Led by Tandy Warnow.
- 2010 Forest Monitor, Metroparks of the Toledo Area: Community structure and dynamics of surviving ash (*Fraxinus* spp.) populations after emerald ash borer (*Agrilus planipennis*) invasion.
- 2006–2007 Botany Program Assistant, Michigan Natural Features Inventory.

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2006–2007 Quality Assurance Laboratory Technician, Mead Johnson Nutritionals,
Zeeland, MI.

MANUSCRIPT REVIEWS

Journal of Biogeography, Systematic Botany, Molecular Phylogenetics and Evolution, International Journal of Plant Sciences, Annals of the Missouri Botanical Garden, Genetica, Journal of Systematics and Evolution, Ecography, BMC Evolutionary Biology, Caryologia, Journal of Paleogeography, Scientific Reports

OUTREACH, SERVICE, AND SYNERGY

2020-Present Associate Editor, *Systematic Botany*
2020-Present Service on departmental Climate, Diversity, Equity and Inclusivity Committee
2020 Review Panel, Botanical Society of America Graduate Student Research Award
2019 Review Panel, Society of Systematic Biologists Graduate Student Research
Award
2018-Present Guest Associate Editor, Special Issue, *Plant Systematics and Evolution*.
2017 - 2019 Pen Pal to aspiring middle-school scientists. Letters to a Pre-Scientist Program.
www.prescientist.org
2017 - Present Planting Science Mentor: advisor to high school research teams.
plantingscience.org
2018 Review panel; American Society of Plant Taxonomists Graduate Student
Research Award
2018 Judge; Undergraduate Research Symposium; University of Utah
2018 Judge; Salt Lake City School District Science and Engineering Fair;
Elementary, Middle School, and High School divisions
2015 Hoofers Sailing Club volunteer: provided sailing instruction to at-risk,
homeless, and runaway youth with Briarpatch Youth Services.
2015 Contributed figures: Spalink, A. and Magelssen, S. “Performing Speciation: The
Nature/Culture Divide at The Creation Museum,” in *Theatre/Performance
Historiography*. Ed. by R. Bank and M. Kobialka. London: Palgrave
Macmillan.
2013–2015 Student representative: Website Committee; American Society of Plant
Taxonomists.
2011–2014 Graduate student representative: Graduate Committee; Department of Botany,
University of Wisconsin-Madison.
2014 Graduate student representative: Awards Committee; Department of Botany,
University of Wisconsin-Madison.
2014 Science consultant for original theatre piece, *All the bodies in the room*.
Produced and performed by Angenette Spalink and Slade Billew at
PerformASTR, American Society for Theatre Research, Baltimore, MD.
2014 Composer for *All the bodies in the room*; transposed DNA sequence data into
musical score. Produced and performed by Angenette Spalink and Slade Billew
at PerformASTR, American Society for Theatre Research, Baltimore, MD.

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- 2012 Leader; Department of Botany Teaching Assistant Training; University of Wisconsin-Madison.
- 2012 Contributed 200+ photographs to Michigan Flora (available: michiganflora.net).
- 2012 Graduate student representative: search committee for Associate Professor of Ecophysiology; Department of Botany, University of Wisconsin-Madison.
- 2012 Host; Graduate Student Recruitment; Department of Botany, University of Wisconsin-Madison.
- 2011 Host; Graduate Student Recruitment; Department of Botany, University of Wisconsin-Madison.
- 2011 Graduate student representative: Awards Committee; Department of Botany, University of Wisconsin-Madison.
- 2008 Land steward; Calvin College, MI.